

12 **EUROPEAN PATENT APPLICATION**

21 Application number: 86308247.5

51 Int. Cl.³: **G 01 N 1/20**

22 Date of filing: 23.10.86

30 Priority: 06.11.85 US 795394

43 Date of publication of application:
20.05.87 Bulletin 87/21

88 Date of deferred publication of search report: 06.04.88

84 Designated Contracting States:
DE ES FR GB IT NL

71 Applicant: **HALLIBURTON COMPANY**
P.O. Drawer 1431
Duncan Oklahoma 73536(US)

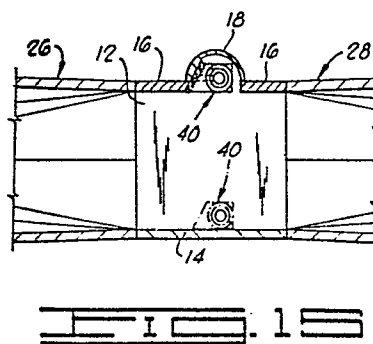
72 Inventor: **Wienck, Dennis Allan**
4417 Odom
Duncan Oklahoma 73533(US)

72 Inventor: **Mints, Danny Keith**
3220 North 5th
Duncan Oklahoma 73533(US)

74 Representative: **Wain, Christopher Paul et al,**
A.A. THORNTON & CO. Northumberland House 303-306
High Holborn
London WC1V 7LE(GB)

54 **Automatic material sampler.**

57 An apparatus for sampling material flowing through a conduit, comprising: housing means for receiving there-through a flow of the material as the material flows through the conduit, said housing means including cross-section defining means (14,16) for defining a full cross-sectional sample area, receptacle means (18) for receiving a collection member (40) outside said defined cross-sectional sample area and connector means (26,28) for connecting said cross-section defining means to the conduit so that the cross-sectional sample area defined by said cross-section defining means is aligned with the cross-section of the conduit; and sampler means, connected with said housing means, for collecting a full cross-sectional sample of the material as the material flows through said cross-section defining means of said housing means under pressure, said sampler means including said collection member (40) disposed in said housing means for receiving a portion of the flowing material; and movement means for moving said collection member from a location outside the full cross-sectional sample area of the material across the full cross-sectional flow sample area of the material, so that it receives said portion of said flowing material as it passes thereacross.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	US-A-4 082 004 (WEBER et al.) * Figures 1-4; column 2, line 45 - column 4, line 24 * ---	1	G 01 N 1/20
A	US-A-4 082 204 * figure 1, ref. 37; column 4, lines 25-36 * ---	2	
A	* Whole document *	9	
Y	* Figures 1,3; column 3, lines 28-37 * ---	5,6	
Y	GB-A-2 154 547 (LEVEY et al.) * Figure 1; page 1, lines 58-78 * ---	5,6	
A	US-A-4 120 203 (CLEMENTS et al.) * Figures 1-4; column 1, lines 45-65; column 3, lines 23-39 * ---	1,3	
A	US-A-4 170 900 (OZAWA) * Figures 1-3; column 1, line 55 - column 2, line 10 * -----	8,10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			G 01 N
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17-12-1987	Examiner HOCQUET A.P.E.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			